

## ABSTRACT

A device and method for the manufacture of medical devices, specifically, endovascular grafts, or sections thereof. Layers of fusible material are disposed upon a shape forming member and seams formed between the layers in a configuration that can produce inflatable channels in desired portions of the graft. After creation of the seams, the fusible material of the inflatable channels may be fixed while the channels are in an expanded state. A five axis robotic seam forming apparatus may be used to create the seams in the layers of fusible material.

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